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Randal J. Kaufman 07/621,092 November 30, 1990

JAN 18 COT

# NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

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This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR § 1.821(a)(1) and (a)(2). However, this application fails to comply with one or more of the requirements of 37 CFR §§ 1.821 through 1.825 as follows: 1. This application clearly fails to comply with the collective requirements of §§ 1.821 through 1.825. Applicant's attention is directed to these regulations, a copy of which is attached. 2. This application does not conform exclusively to the requirements of §§.1.821 through 1.825. The non-conforming material should be deleted. § 1.821(b). 3. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing." § 1.821(c). 4. This application does contain, as a separate part of the disclosure on paper copy, a "Sequence Listing." However, the "Sequence Listing" does not comply with the requirements of §§ 1.821 through 1.825 as follows: a. The sequence data does not comply with the symbol and format requirements of paragraphs (b) through (p) of § 1.822. Specifically: b. The "Sequence Listing" does not comply with the location and page requirements of paragraph (a) of § 1.823. \_ c. The "Sequence Listing" does not comply with the information requirements of paragraph (b) of § 1.823. Specifically: 5. The description and/or claims of the patent application mention a sequence that is set forth in the "Sequence Listing" but reference is not properly made to the sequence by use of a sequence identifier as required by § 1.821(d). 6. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by § 1.821(e). 7. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the computer readable form does not comply with the requirements of § 1.824. Specifically:

SEE Attached Raw Sequence Listing ... 8. A statement that the content of the paper and computer readable copies are the same has not been submitted as required by § 1.821(f). 9. The amendment to or replacement of the paper and/or computer readable copies of the "Sequence Listing" does not comply with the requirements of § 1.825(a) through (c). 10. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable. Applicant must provide a substitute copy of the data in computer readable form accompanied by a statement that the substitute data is identical to that originally filed. § 1.825(d). Specifically: 11. Other: APPLICANT IS GIVEN ONE MONTH FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE ABOVE REQUIREMENTS. Failure to comply with the above requirenents will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR § 1.136. Direct the response to, and any questions about, this notice to the undersigned. A copy of this notice MUST be returned with your response.

For: Nanager, Application Processing Division (703) 3(8-1202 or 208-1203

E) amining Group (03) 308-\_\_\_\_\_

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#### Page: 1

#### Raw Sequence Listing

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1		SEQUENCE LISTING
2		
3		
4		
5	(1) GENE	RAL INFORMATION:
6		•
7	(i)	APPLICANT: Kaufman, Randal J.
8		Wasley, Louise
9		
10	(ii)	TITLE OF INVENTION: Method of Increasing Yield of
11		Mature Proteins
12		100000000000000000000000000000000000000
13	(111)	NUMBER OF SEQUENCES: 2
14 15	4 >	
15 16	(14)	CORRESPONDENCE ADDRESS:
16 17		(A) ADDDEGGDE. Goneting Tookitute T
18		(A) ADDRESSEE: Genetics Institute, Inc. (B) STREET: 87 CambridgePark Drive
19		, ,
20		(C) CITY: Cambridge (D) STATE: Massachusetts
21		(E) COUNTRY: United States of America
22		(F) ZIP: 02140
23		(-,
24	(V)	COMPUTER READABLE FORM:
25	• •	
26		(A) MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb storage
27		
28		(B) COMPUTER: IBM PS/2
29		
30		(C) OPERATING SYSTEM: PC-DOS
31		
32		(D) SOFTWARE: WordPerfect 5.1
33		
34	(vi)	CURRENT APPLICATION DATA:
35 26		(3) 3007 707 707 707 707 707 707 707 707 70
36 37		(A) APPLICATION NUMBER: 07/621092
3 <i>1</i> 38		(B) FILING DATE: 26-NOV-1990
39		(B) FILING DATE: 26-NOV-1990
40		(C) CLASSIFICATION: 424
41		(c) CHASSIFICATION: 424
42	(vii)	PRIOR APPLICATION DATA: not applicable
43	(,	millow bain. not applicable
44		(A) APPLICATION NUMBER:
45		(··/
46		(B) FILING DATE:
47		• •
48	(viii)	ATTORNEY/AGENT INFORMATION
49	•	
50		(A) NAME: Ellen J. Kapinos, Esquire
51		(B) REGISTRATION NUMBER: 32,245
52	(	(C) REFERENCE/DOCKET NUMBER: GI 5181

#### Raw Sequence Listing

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69		(I	)) 2	[opo	logy	: ui	aknov	wn					
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71	(ii	) MO	LECU	JLE :	<b>TYPE</b>	: pa	rtia:	l hw	nan 🤉	genoi	nic 1	DNA	
72													
73		(A	() DI	ESCR	IPTI	ON:	sequ	ence	ence	oding	g fu	rin	
74													
75	(iii	) HY	POTI	HETI	CAL:	no							
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77 78	(iv	) AN	ITI – S	SENSI	E: 1	10							
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81						a.	L, NI	ucı.	ACIO	18. 1	kes.	, 18:	664 (1990)
82	(vi	) SF	OUE	ICE I	DESCI	RTPT'	ron:	SE	O ID	NO.	1		
83	(	, ––					. 0.11 .	J 25	2 10	1101	•		
84	ATG GAG	CTC	AGG	ccc	TGG	TTC							21
	ATG GAG Met Glu												21
84	ATG GAG Met Glu 1												21
84 85	Met Glu			Pro									21
84 85 86	Met Glu 1 CTA TGG	Leu	Arg GTA	Pro 5 CCA	Trp	Leu							21 60
84 85 86 87	Met Glu 1	Leu	Arg GTA	Pro 5 CCA	Trp	Leu							
84 85 86 87 88 89	Met Glu 1 CTA TGG	Leu	Arg GTA	Pro 5 CCA	Trp	Leu							
84 85 86 87 88 89 90	Met Glu 1 CTA TGG Leu Trp	GTC Val 10	Arg GTA Val	Pro 5 CCA Ala	Trp CCA Ala	Leu ACA Thr	Gly 15	Thr	Leu	Val	Leu	Leu 20	
84 85 86 87 88 89 90 91	Met Glu 1 CTA TGG Leu Trp GCA GCT	GTC Val 10	Arg GTA Val GCT	Pro 5 CCA Ala CAG	Trp CCA Ala	Leu ACA Thr	Gly 15 AAG	Thr	Leu	Val ACC	Leu	Leu 20 ACG	
84 85 86 87 88 89 90 91 92 93	Met Glu 1 CTA TGG Leu Trp	GTC Val 10	Arg GTA Val GCT	Pro 5 CCA Ala CAG	Trp CCA Ala	Leu ACA Thr	Gly 15 AAG	Thr	Leu	Val ACC	Leu	Leu 20 ACG	60
84 85 86 87 88 89 90 91 92 93	Met Glu 1 CTA TGG Leu Trp GCA GCT	GTC Val 10	Arg GTA Val GCT	Pro 5 CCA Ala CAG	Trp CCA Ala	Leu ACA Thr	Gly 15 AAG	Thr	Leu	Val ACC	Leu	Leu 20 ACG	60
84 85 86 87 88 89 90 91 92 93 94	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala	GTC Val 10 GAT Asp	Arg GTA Val GCT Ala	Pro 5 CCA Ala CAG Gln 25	Trp CCA Ala GGC Gly	Leu ACA Thr CAG Gln	Gly 15 AAG Lys	Thr GTC Val	TTC Phe 30	Val ACC Thr	Leu AAC Asn	Leu 20 ACG Thr	60 99
84 85 86 87 88 89 90 91 92 93 94 95	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT	GTC Val 10 GAT Asp	GTA Val GCT Ala	Pro 5 CCA Ala CAG Gln 25	Trp CCA Ala GGC Gly CCT	Leu ACA Thr CAG Gln	Gly 15 AAG Lys GGC	Thr GTC Val	TTC Phe 30 GCG	Val ACC Thr	AAC Asn GCC	Leu 20 ACG Thr	60
84 85 86 87 88 89 90 91 92 93 94 95 96	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT Trp Ala	GTC Val 10 GAT Asp	GTA Val GCT Ala	Pro 5 CCA Ala CAG Gln 25	Trp CCA Ala GGC Gly CCT	Leu ACA Thr CAG Gln GGA Gly	Gly 15 AAG Lys GGC	Thr GTC Val	TTC Phe 30 GCG	Val ACC Thr	AAC Asn GCC Ala	Leu 20 ACG Thr	60 99
84 85 86 87 88 89 90 91 92 93 94 95 96 97	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT	GTC Val 10 GAT Asp	GTA Val GCT Ala	Pro 5 CCA Ala CAG Gln 25	Trp CCA Ala GGC Gly CCT	Leu ACA Thr CAG Gln	Gly 15 AAG Lys GGC	Thr GTC Val	TTC Phe 30 GCG	Val ACC Thr	AAC Asn GCC	Leu 20 ACG Thr	60 99
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT Trp Ala	GTC Val 10 GAT Asp	GTA Val GCT Ala	Pro 5 CCA Ala CAG Gln 25	Trp CCA Ala GGC Gly CCT	Leu ACA Thr CAG Gln GGA Gly	Gly 15 AAG Lys GGC	Thr GTC Val	TTC Phe 30 GCG	Val ACC Thr	AAC Asn GCC Ala	Leu 20 ACG Thr	60 99
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT Trp Ala 35	GTC Val 10 GAT Asp GTG Val	GTA Val GCT Ala CGC Arg	Pro 5 CCA Ala CAG Gln 25 ATC Ile	Trp  CCA Ala  GGC Gly  CCT Pro	ACA Thr CAG Gln GGA Gly 40	Gly 15 AAG Lys GGC Gly	Thr GTC Val CCA Pro	TTC Phe 30 GCG Ala	ACC Thr GTG Val	AAC Asn GCC Ala 45	Leu 20 ACG Thr AAC Asn	60 99 138
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT Trp Ala 35	GTC Val 10 GAT Asp GTG Val	GTA Val GCT Ala CGC Arg	Pro 5 CCA Ala CAG Gln 25 ATC Ile	Trp  CCA Ala  GGC Gly  CCT Pro	Leu ACA Thr CAG Gln GGA Gly 40 GGG	Gly 15 AAG Lys GGC Gly	Thr GTC Val CCA Pro	TTC Phe 30 GCG Ala	ACC Thr GTG Val	AAC Asn GCC Ala 45	Leu 20 ACG Thr AAC Asn	60 99
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT Trp Ala 35	GTC Val 10 GAT Asp GTG Val	GTA Val GCT Ala CGC Arg	Pro 5 CCA Ala CAG Gln 25 ATC Ile	Trp  CCA Ala  GGC Gly  CCT Pro	Leu ACA Thr CAG Gln GGA Gly 40 GGG	Gly 15 AAG Lys GGC Gly	Thr GTC Val CCA Pro	TTC Phe 30 GCG Ala	ACC Thr GTG Val	AAC Asn GCC Ala 45	Leu 20 ACG Thr AAC Asn	60 99 138
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT Trp Ala 35	GTC Val 10 GAT Asp GTG Val	GTA Val GCT Ala CGC Arg	Pro 5 CCA Ala CAG Gln 25 ATC Ile	Trp  CCA Ala  GGC Gly  CCT Pro	Leu ACA Thr CAG Gln GGA Gly 40 GGG	Gly 15 AAG Lys GGC Gly	Thr GTC Val CCA Pro	TTC Phe 30 GCG Ala	ACC Thr GTG Val	AAC Asn GCC Ala 45	Leu 20 ACG Thr AAC Asn	60 99 138
84 85 86 87 88 90 91 92 93 94 95 96 97 98 99 100 101 102	Met Glu 1 CTA TGG Leu Trp GCA GCT Ala Ala TGG GCT Trp Ala 35	GTC Val 10 GAT Asp GTG Val	GTA Val GCT Ala CGC Arg CGG Arg 50	Pro 5 CCA Ala CAG Gln 25 ATC Ile	Trp  CCA Ala  GGC Gly  CCT Pro	Leu ACA Thr CAG Gln GGA Gly 40 GGG Gly	Gly 15 AAG Lys GGC Gly TTC Phe	Thr GTC Val CCA Pro CTC Leu 55	TTC Phe 30 GCG Ala AAC Asn	ACC Thr GTG Val CTG Leu	AAC Asn GCC Ala 45 GGC Gly	Leu 20 ACG Thr AAC Asn	60 99 138

#### Raw Sequence Listing

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107 108 109	60					65					70			
110	ACG	AAG	CGG	TCC	CTG	TCG	CCT	CAC	CGC	CCG	CGG	CAC	AGC	255
111							Pro							
112		-4-	75					80			5		85	
113														
114														
115	CGG	CTG	CAG	AGG	GAG	CCT	CAA	GTA	CAG	TGG	CTG	GAA	CAG	294
116	Arg	Leu	Gln	Arg	Glu	Pro	Gln	Val	Gln	Trp	Leu	Glu	Gln	
117					90					95				
118														
119							ACT							333
120	Gln		Ala	Lys	Arg	Arg	Thr	Lys	Arg	Asp	Val		Gln	
121		100					105					110		
122 123	CRC	ccc	202	030	000	330	mmm.	0.00	03.0	03.0	maa	m	ama	272
123							Phe						CTG	372
125	GIU	PIO	THE	115	PIO	гур	PHE	PIO	120	GIH	Trp	Tyr	ren	
126				113					120					
127	TCT	GGT	GTC	ACT	CAG	CGG	GAC	CTG	ААТ	GTG	AAG	GCG	GCC	411
128							Asp							•••
129	125					130					135			
130														
131	TGG	GCG	CAG	GGC	TAC	ACA	GGG	CAC	GGC	ATT	CTG	GTC	TCC	450
132	Trp	Ala	Gln	Gly	Tyr	Thr	Gly	His	Gly	Ile	Val	Val	Ser	
133			140					145					150	
134														
135							GAG							489
136	Ile	Leu	Asp	Asp		Ile	Glu	Lys	Asn		Pro	Asp	Leu	
137					155					160				
138 139	CCR	000	3 3 m	mam	03m	0.0m	000	000	1 am					
140							GGG Gly							528
141	VIG	165	МВЦ	TÄT	web	PIU	170	ATA	ser	Phe	Asp	175	ASII	
142		103					1,0					1/3		
143	GAC	CAG	GAC	CCT	GAC	ccc	CAG	CCT	CGG	TAC	ACA	CAG	ATG	567
144							Gln							
145	-		•	180	•				185					
146														
147							ACA							606
148		Asp	Asn	Arg	His	Gly	Thr	Arg	Cys	Ala	Gly	Glu	Val	
149	190					195					200			
150														
151							CGT							645
152	ATA	ALA		Ala	Asn	Asn	Gly		Cys	Gly	Val	Gly	Val .	
153 154			205					210					215	
154	GCC	TTR CT	224	000	000	N ITHE	003	000	OEG	000	3 m~	ama.	03.m	
156							GGA Gly							684
157	viq	TÅT.	WPH	WIG	220	TIG	GTA	атА	AGT	225	Met	Leu	Asp	
158					Z Z U					443				
159	GGC	GAG	GTG	ACA	GAT	GCA	GTG	GAG	GCA	CGC	<b>ጥ</b> ርር	ርጥር	GGC	723
								J.1J	JUN	230		-14	330	, 23

#### Raw Sequence Listing

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CTG   AAC   CCC   AAC   CAC   ATC   CAC   ATC   TAC   AGT   GCC   AGC   TGG   TGG	160 161 162	Gly	Glu 230	Val	Thr	Asp	Ala	Val 235	Glu	Ala	Arg	Ser	Leu 240	Gly	
Leu Asn Pro Asn His Tle His Tle Tyr Ser Ala Ser Trp   245   250   250   250   250   250   250   250   265		CTG	AAC	CCC	AAC	CAC	ATC	CAC	ATC	TAC	AGT	GCC	AGC	тсс	762
165															,,,
167	165									_				•	
168															
169   255															801
170			Pro	Glu	Asp	Asp	_	Lys	Thr	Val	Asp	_	Pro	Ala	
171		200					260					265			
172		CGG	СТС	GCC	GNG	GAG	GCC	ጥጥር	שייר	CGT	GGG	CTPTT	NGC.	CAG	840
173															940
174											1		-		
176	174														
177	175	GGC	CGA	GGG	GGG	CTG	GGC	TCC	ATC	TTT	GTC	TGG	GCC	TCG	879
178		Gly	Arg	Gly	Gly	Leu	Gly	Ser	Ile	Phe	Val	Trp	Ala	Ser	
179						285					290				
180															
181															918
182 183		GIY		GIY	GIÄ	Arg	GIU		Asp	ser	Cys	Asn	_	Asp	
183   GGC TAC   ACC   AAC   AGT   ATC   TAC   ACG   CTG   TCC   ATC   AGC   AGC   AGC   AGC   185   A10   A10   A10   A11   A11   A11   A11   A12			233					300					303		
184   Gly Tyr Thr Asn Ser Ile Tyr Thr Leu Ser Ile Ser Ser		GGC	TAC	ACC	AAC	AGT	ATC	TAC	ACG	СТС	TCC	ATC	AGC	AGC	957
185															,,,
187       GCC       ACG       CAG       TTT       GGC       AAC       GTG       CCG       TGG       TAC       AGC       GAG       GCC       996         188       Ala       Thr       Gln       Phe       Gly       Asn       Val       Pro       Try       Tyr       Ser       Glu       Ala         189       320       325       325       330       330       330       330       330         190       TGC       TCG       TCC       ACA       CTG       GCC       ACG       ACC       TAC       AGC       A	185	-	•					•							
188       Ala Thr Gln Phe Gly Asn Val Pro Trp Tyr Ser Glu Ala         189       320       325       330         190         191       TGC TCG TCC ACA CTG GCC ACG ACC TAC AGC AGT GGC AAC       1035         192       Cys Ser Ser Thr Leu Ala Thr Thr Tyr Ser Ser Gly Asn       345         193       335       340       345         194       335       340       345         195       CAG AAT GAG AAG CAG ATC GTG ACG ACT GAC TTG CGG CAG       1074         196       Gln Asn Glu Lys Gln Ile Val Thr Thr Asp Leu Arg Gln       197         197       350       355         198       360       355         199       AAG TGC ACG GAG TCT CAC ACG GGC ACC TCA GCC TCT GCC       1113         200       Lys Cys Thr Glu Ser His Thr Gly Thr Ser Ala Ser Ala       370         201       360       365       370         202       360       365       370         203       CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC       1152         204       Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala       380         205       375       380         206       AAT AAG AAC CTC ACA TGG CGG GAC ATG CAC CTG GTG CTC GTG GTG       1191         208       Asn Lys Asn Leu Thr T	186														
189       320       325       330         190       191       TGC TCG TCC ACA CTG GCC ACG ACC TAC AGC AGT GGC AAC       1035         192       Cys Ser Ser Thr Leu Ala Thr Thr Tyr Ser Ser Gly Asn       345         193       335       340       345         194       335       340       345         194       335       340       345         195       CAG AAT GAG AAG CAG ATC GTG ACG ACT GAC TTG CGG CAG       1074         196       Gln Asn Glu Lys Gln Ile Val Thr Thr Asp Leu Arg Gln       355         198       350       355         199       AAG TGC ACG GAG TCT CAC ACG GGC ACC TCA GCC TCT GCC       1113         200       Lys Cys Thr Glu Ser His Thr Gly Thr Ser Ala Ser Ala       370         201       360       365       370         202       203       CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC       1152         204       Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala       380         205       375       380         206       375       380         207       AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191         208       Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val         209       385       390       395 <td></td> <td>996</td>															996
190 191 TGC TCG TCC ACA CTG GCC ACG ACC TAC AGC AGT GGC AAC 192 Cys Ser Ser Thr Leu Ala Thr Thr Tyr Ser Ser Gly Asn 193			Thr	Gln	Phe	Gly		Val	Pro	Trp	Tyr		Glu	Ala	
191 TGC TCG TCC ACA CTG GCC ACG ACC TAC AGC AGT GGC AAC 192 Cys Ser Ser Thr Leu Ala Thr Thr Tyr Ser Ser Gly Asn 193		320					325					330			
192		TOO	mee	maa	202	cmc.	000	3.00	300	m = 0					1025
193															1035
194 195 CAG AAT GAG AAG CAG ATC GTG ACG ACT GAC TTG CGG CAG 1074 196 Gln Asn Glu Lys Gln Ile Val Thr Thr Asp Leu Arg Gln 197 350 355 198 199 AAG TGC ACG GAG TCT CAC ACG GGC ACC TCA GCC TCT GCC 1113 200 Lys Cys Thr Glu Ser His Thr Gly Thr Ser Ala Ser Ala 201 360 365 370 202 203 CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC 1152 204 Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala 205 375 380 206 207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191 208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395 210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230		0,3	561		T111.	Leu	AIG	YHL		TAT	Ser	261	GIĀ		
196	_								510					343	
196	195	CAG	AAT	GAG	AAG	CAG	ATC	GTG	ACG	ACT	GAC	TTG	CGG	CAG	1074
197 198 199 AAG TGC ACG GAG TCT CAC ACG GGC ACC TCA GCC TCT GCC 1113 200 Lys Cys Thr Glu Ser His Thr Gly Thr Ser Ala Ser Ala 201 360 365 370 202 203 CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC 204 Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala 205 375 380 206 207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395 210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230	196														
199 AAG TGC ACG GAG TCT CAC ACG GGC ACC TCA GCC TCT GCC 1113 200 Lys Cys Thr Glu Ser His Thr Gly Thr Ser Ala Ser Ala 201 360 365 370 202 203 CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC 1152 204 Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala 205 375 380 206 207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191 208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 390 385 390 395 210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230	197												_		
200       Lys Cys Thr Glu Ser His Thr Gly Thr Ser Ala Ser Ala         201       360       365       370         202       365       370         203       CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC       1152         204       Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala       205         205       375       380         206       380         207       AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG       1191         208       Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val       395         210       385       390       395         210       GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC       1230															
201 360 365 370  202  203 CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC 1152  204 Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala 205 375 380  206  207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191  208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395  210  211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230															1113
202 203 CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC 1152 204 Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala 205 375 380 206 207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191 208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395 210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230		Lys		Thr	Glu	Ser	His		Gly	Thr	Ser	Ala		Ala	
203 CCC TTA GCA GCC GGC ATC ATT GCT CTC ACC CTG GAG GCC 1152 204 Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala 205 375 380 206 207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191 208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395 210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230			360					365					370		
204 Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala 205 375 380  206  207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191 208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395  210  211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230		CCC	ጥጥል	GCA	GCC	ccc	አጥሮ	አመጥ	CCM	CTDC	200	CMC	030	000	1167
205 375 380  206  207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191  208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val  209 385 390 395  210  211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230															1152
206 207 AAT AAG AAC CTC ACA TGG CGG GAC ATG CAA CAC CTG GTG 1191 208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395 210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230						1						Lu	JIU	ara	
208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395 210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230															
208 Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val 209 385 390 395 210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230	207	AAT	AAG	AAC	CTC	ACA	TGG	CGG	GAC	ATG	CAA	CAC	CTG	GTG	1191
210 211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230															
211 GTA CAG ACC TCG AAG CCA GCC CAC CTC AAT GCC AAC GAC 1230		385					390		_			395			
val Gin Thr Ser Lys Pro Ala His Leu Asn Ala Asn Asp															1230
	412	VAI	GIN	Thr	ser	гĀг	Pro	Ala	His	Leu	Asn	Ala	Asn	Asp	

#### Raw Sequence Listing

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213			400					405					410	
214														
215								_					TCA	1269
216	Trp	AIA	Thr	Asn	_	Val	GTĀ	Arg	Lys		Ser	His	Ser	
217					415					420				
218	mam	000	m= 0	000										1200
219 220													GCC	1308
220	Tyr	425	TYT	Gly	Leu	Leu	_	AIA	GTĀ	ATA	Met		AIA	
221		423					430					435		
223	CTIC	ccc	CNC	2 2 0	maa.	3.00	202	ama.	000		03.0	000	AAG	1247
223				Asn										1347
225	Leu	VIG	GIH	440	пр	Int	1111	VAI	445	PIO	GIH	Arg	rAs	
226				110					447					
227	TGC	ATC	<b>ል</b> ጥር	GAC	<b>አ</b> ጥሮ	CTC	<b>ACC</b>	GNG	ccc	222	GAC	አጥሮ	GGG	1386
228				Asp										1360
229	450			p		455	****	GIU	110	ny s	460	116	GIY	
230											100			
231	AAA	CGG	CTC	GAC	CTC	CGG	AAC	ACC	GTG	ACC	GCG	TCC	CTG	1425
232				Glu										1123
233	•	_	465			5	-1-	470				-1-	475	
234														
235	GGC	GAG	ccc	AAC	CAC	ATC	ACT	CGG	CTG	GAG	CAC	GCT	CAG	1464
236				Asn										
237	_				480			_		485				
238														
239	GCG	CGG	CTC	ACC	CTG	TCC	TAT	AAT	CGC	CGT	GGC	GAC	CTG	1503
240	Ala	Arg	Leu	Thr	Leu	Ser	Tyr	Asn	Arg	Arg	Gly	Asp	Leu	
241		490					495			_	_	500		
242														
243													ACC	1542
244	Ala	Ile	His	Leu	Val	Ser	Pro	Met	Gly	Thr	Arg	Ser	Thr	
245				505					510					
246														
247													GGG	1581
248		Leu	Ala	Ala	Arg		His	Asp	Tyr	Ser		Asp	Gly	
249 250	515					520					525			
250 251	mmm	3 3 M		maa										
251				Trp									GAT	1620
253	FIIE	WPII	530	Trp	ATG	Pne	Met		THE	HIS	ser	Trp		
254			330					535					540	
255	GAC	GAT	CCC	тст	cca	CNC	TICC	CMC	CMA	CRC	3 (D/D)	<b>CRR</b>	AAC	1650
256				Ser										1659
257	JIU	vaħ		Ber	545	GIU	Trb	AGT	Leu	550	TIE	GIU	ASI	
258					747					J 3 U				
259	ACC	AGC	GAA	GCC	AAC	AAC	ጥልጥ	GGG	ACG	ርጥር	ACC	220	ጥሮር	1698
260				Ala										1070
261		555					560	1		u		565		
262														
263	ACC	CTC	GTA	CTC	TAT	GGC	ACC	GCC	ССТ	GAC	GGG	CTC	CCC	1737
264				Leu										,
265				570	-	•			575		-4		=	

#### Raw Sequence Listing

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266														
267													TCC	1776
268		Pro	Pro	Glu	Ser		Gly	Cys	Lys	Thr		Thr	Ser	
269	580					585					590			
270														
271							TGC							1815
272	Ser	Gln		Cys	Val	Val	Cys		Glu	Gly	Phe	Ser		
273			595					600					605	
274	~~	<b>63.6</b>												
275							CAG							1854
276	HIS	Gin	гĀг	ser	_	vai	Gln	Asn	Cys		Pro	Gly	Phe	
277					610					615				
278	000	000		ama	ama			~~~						
279 280							ACG							1893
281	ATA	620	GIN	var	Leu	Asp	Thr	Asn	Tyr	ser	Thr		Asn	
282		620					625					630		
283	GAC	GTG.	CNC	N.C.C	N/II/C	ccc	GCC	300	ama.	maa	000	000	maa	1022
284							Ala							1932
285	rop	Val	GIU	635	116	ALG	MIG	261	640	Cys	WIR	Pro	Cys	
286				033					040					
287	CAC	GCC	TCA	тст	GCC	ACA	TGC	CAG	CCC	CCG	GCC	CTG	ACA	1971
288							Cys							17/1
289	645			0,0	mzu	650	Cys	GIH	GIY	110	655	Dea	1111	
290						030					033			
291	GAC	TGC	CTC	AGC	TGC	CCC	AGC	CAC	GCC	TCC	ጥጥር	GAC	CCT	2010
292							Ser							2010
293	•	- •	660		-4-			665					670	
294														
295	GTG	GAG	CAG	ACT	TGC	TCC	CGG	CAA	AGC	CAG	AGC	AGC	CGA	2049
296							Arg							
297					675		-			680				
298														
299	GAG	TCC	CCG	CCA	CAG	CAG	CAG	CCA	CCT	CGG	CTG	CCC	CCG	2088
300	Glu	Ser	Pro	Pro	Gln	Gln	Gln	Pro	Pro	Arg	Leu	Pro	Pro	
301		685					690			_		695		
302														
303							CGG							2127
304	Glu	Val	Glu	Ala	Gly	Gln	Arg	Leu	Arg	Ala	Gly	Leu	Leu	
305				700					705					
306														
307													TGC	2166
308		Ser	His	Leu	Pro		Val	Val	Ala	Gly	Leu	Ser	Cys	
309	710					715					720			
310														
311							TTC							2205
312	Ala	Phe		Val	Leu	Val	Phe		Thr	Val	Phe	Leu		
313			725					730					735	
314	ac -													
315							TTT							2244
316	ьeи	GIN	Leu	Arg		Gly	Phe	Ser	Phe	_	Gly	Val	Lys	
317					740					745				
318														

#### Raw Sequence Listing

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319	GTG TAC ACC ATG GAC CGT GGC CTC ATC TCC TAC AAG GGG 2283
320	Val Tyr Thr Met Asp Arg Gly Leu Ile Ser Tyr Lys Gly
321	750 755 760
322	
323	CTG CCC CCT GAA GCC TGG CAG GAG TGC CCG TCT GAC 2322
324	Leu Pro Pro Glu Ala Trp Gln Glu Glu Cys Pro Ser Asp
325	765 770
326	
327	TCA GAA GAG GAC GAG GGC CGG GGC GAG AGG ACC GCC TTT 2361
328	Ser Glu Glu Asp Glu Gly Arg Gly Glu Arg Thr Ala Phe
329	775 780 785
330	
331	ATC AAA GAC CAG AGC GCC CTC TGA 2385
332	Ile Lys Asp Gln Ser Ala Leu End
333	790
334	
335	
336	(3) INFORMATION FOR SEQ ID NO:2
337	• • • • • • • • • • • • • • • • • • • •
338	(i) SEQUENCE CHARACTERISTICS:
339	• • •
340	(A) LENGTH: 794 amino acids
341	
342	(B) TYPE: amino acids
343	
344	(C) STRANDEDNESS: single
345	,
346	(D) Topology: unknown
347	
348	(ii) MOLECULE TYPE: furin
349	
350	(iii) HYPOTHETICAL: no
351	
352	(iv) ANTI-SENSE: no
353	
354	(v) PUBLICATION INFORMATION: A.M.W. van den Ouweland et al,
355	Nucl. Acids. Res., 18:664 (1990)
356	
357	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:2
358	
359	
360	Met Glu Leu Arg Pro Trp Leu
361	1 5
362	
363	Leu Trp Val Val Ala Ala Thr Gly Thr Leu Val Leu Leu
364	10 15 20
365	
366	Ala Ala Asp Ala Gln Gly Gln Lys Val Phe Thr Asn Thr
367	25 30
368	
369	Trp Ala Val Arg Ile Pro Gly Gly Pro Ala Val Ala Asn
370	35 40 45
371	

#### Raw Sequence Listing

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372 373	Ser	Val	Ala	Arg 50	Lys	His	Gly	Phe	Leu 55	Asn	Leu	Gly	Gln
374													
375		Phe	Gly	Asp	Tyr		His	Phe	Trp	His	Arg	Gly	Val
376	60					65					70		
377	<b>60</b> h	<b>v</b>	•		• • • •	<b>.</b>		•	_	_	_	•	_
378 379	Thr	гаг	Arg 75	ser	Leu	ser	Pro		Arg	Pro	Arg	His	
380			75					80					85
381													
382	Arq	Leu	Gln	Ara	Glu	Pro	Gln	Val	Gln	Trp	Leu	Glu	Gln
383	•				90					95			
384													
385	Gln	Val	Ala	Lys	Arg	Arg	Thr	Lys	Arg	Asp	Val	Tyr	Gln
386		100					105					110	
387			_										
388	Glu	Pro	Thr		Pro	Lys	Phe	Pro		Gln	Trp	Tyr	Leu
389 390				115					120				
391	Sar	G1 w	Wo 1	mh~	<b>61</b> m	7 wa	8	T 0	B ===	17- 1	Lys	<b>71</b> -	21-
392	125	Gry	VAI	1111	GIII	130	wsb	Leu	АВЦ	VAI	135	ATA	MIG
393						130					133		
394	Trp	Ala	Gln	Glv	Tvr	Thr	Glv	His	Glv	Ile	Val	Val	Ser
395	•		140		-1-			145	,				150
396													
397	Ile	Leu	Asp	Asp	Gly	Ile	Glu	Lys	Asn	His	Pro	Asp	Leu
398					155					160			
399			_	_	_	_	<b>_</b>						
400	Ala		Asn	Tyr	Asp	Pro	_	Ala	Ser	Phe	Asp		Asn
401 402		165					170					175	
403	Asn	Gln	Aen	Pro	Aen	Pro	Gl n	Dro	A ~~	Фт.	Thr	<b>61</b> 5	Wot
404	p	UIII	vab	180	vob	110	GIH	FIU	185	TÄT	1111	GIII	met
405													
406	Asn	Asp	Asn	Arg	His	Gly	Thr	Arg	Cys	Ala	Gly	Glu	Val
407	190	_		_		195		_	-		200		
408													
409	Ala	Ala		Ala	Asn	Asn	Gly		Cys	Gly	Val	Gly	
410			205					210					215
411	71.	<b>(7)</b>			•	-1-	<b>~1</b>	-1	1	_		_	_
413	MIG	TYP	ASI	AIA	220	116	GIY	GTÄ	VAI	Arg 225	Met	Leu	Asp
414					220					223			
415	Glv	Glu	Val	Thr	Asp	Ala	Val	Glu	Ala	Aro	Ser	Lev	Glv
416	- 4	230	<b>-</b>		<b>F</b>		235			3		240	1
417													
418	Leu	Asn	Pro	Asn	His	Ile	His	Ile	Tyr	Ser	Ala	Ser	Trp
419				245					250				-
420													
421		Pro	Glu	Asp	Asp		Lys	Thr	Val	Asp	Gly	Pro	Ala
422	255					260					265		
423 424	A	T.6	71-	G1	<b>~1</b>	<b>71</b> -	Dh-	nh -	N	<b>03</b>	Y7. 1	O =	<b>61</b> ··
	9	Leu	utq	GIU	GIU	wrg	FIIE	LHE	arg	етА	val	ser	Gln

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425 426			270					275					280
427	Gly	Arq	Gly	Gly	Leu	Glv	Ser	Ile	Phe	Val	Trp	Ala	Ser
428	•	_	•	•	285	•				290			
429													
430	Gly	Asn	Gly	Gly	Arg	Glu	His	Asp	Ser	Cys	Asn	Cys	Asp
431		295					300					305	
432													
433	Gly	Tyr	Thr		Ser	Ile	Tyr	Thr	Leu	Ser	Ile	Ser	Ser
434				310					315				
435													
436		_,				_		_	_	_	_		
437		Thr	GIn	Pne	GTĀ		Val	Pro	Trp	Tyr		Glu	Ala
438 439	320					325					330		
440	Cvc	50×	60~	mb	T 0	710	mb	mb	<b></b>	C	C	a1	3
441	Cys	Ser	335	IHI	Leu	MIG	THE	340	Tyr	ser	ser	GLY	Asn 345
442			333					340					343
443	Gln	Asn	Glu	Lvs	Gln	Tle	Va 1	Thr	Thr	Asn	T.e.11	Ara	Gln
444				-1-	350		***			355		y	OIII
445													
446	Lys	Cys	Thr	Glu	Ser	His	Thr	Gly	Thr	Ser	Ala	Ser	Ala
447		360					365	_				370	
448													
449	Pro	Leu	Ala		Gly	Ile	Ile	Ala	Leu	Thr	Leu	Glu	Ala
450				375					380				
451													
452		Lys	Asn	Leu	Thr	_	Arg	Asp	Met	Gln		Leu	Val
453	385					390					395		
454 455	**- 1	<b>01</b>	m1	<b>a</b>	<b>-</b>				_	_		_	_
456	Val	GIN	Thr 400	ser	rĀ2	Pro	AIA		Leu	Asn	Ala	Asn	
457			400					405					410
458	Tro	λla	Thr	Asn	Glv	۷al	G1 w	Ara	T.ve	Va 1	Sar	wie	Ser
459	<b>F</b>				415	• • • •	0-1	9	-13 S	420	561	пто	561
460										120			
461	Tyr	Gly	Tyr	Glv	Leu	Leu	Asp	Ala	Glv	Ala	Met	Val	Ala
462	-	425	-	•			430					435	
463													
464	Leu	Ala	Gln	Asn	Trp	Thr	Thr	Val	Ala	Pro	Gln	Arg	Lys
465				440					445				
466													
467		Ile	Ile	Asp	Ile		Thr	Glu	Pro	Lys		Ile	Gly
468	450					455					460		
469		_	_			_	_						
470 471	ьys	Arg		GLU	val	Arg	Lys		val	Thr	Ala	Cys	Leu
472			465					470					475
473	G1 ++	G1 ··	Dra	l en	n:~	T1-	ጥኤ	<b>A</b> -	T ~	G1	w: -	n 1 -	<b>41</b> ~
474	GIY	JIU	FIO	ven	480	TIE	THE	arg	Leu	485	nis	AIA	Gln
475					-00					-03			
476	Ala	Ara	Leu	Thr	Leu	Ser	Tvr	Asn	Ara	Ara	G] v	Asn	T.eu
477		490					495		3	3	1	500	_~~
		_											

#### Raw Sequence Listing

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478													
479	Ala	Ile	His	Leu	Val	Ser	Pro	Met	Gly	Thr	Arg	Ser	Thr
480				505					510		-		
481													
482	Leu	Leu	Ala	Ala	Arg	Pro	His	Asp	Tyr	Ser	Ala	Asp	Gly
483	515					520		-	-		525	•	•
484													
485	Phe	Asn	Asp	Trp	Ala	Phe	Met	Thr	Thr	His	Ser	Trp	Asp
486			530	•				535					540
487													
488	Glu	Asp	Pro	Ser	Glv	Glu	Trp	Val	Leu	Glu	Ile	Glu	Asn
489		-			545		•			550			
490													
491	Thr	Ser	Glu	Ala	Asn	Asn	Tyr	Gly	Thr	Leu	Thr	Lvs	Phe
492		555					560	4				565	
493													
494	Thr	Leu	Val	Leu	Tvr	Gly	Thr	Ala	Pro	Glu	Glv	Leu	Pro
495				570	- •	2			575		1		
496													
497	Val	Pro	Pro	Glu	Ser	Ser	Glv	Cvs	Lvs	Thr	Leu	Thr	Ser
498	580					585		- 4			590		
499													
500	Ser	Gln	Ala	Cvs	Val	Val	Cvs	Glu	Glu	Glv	Phe	Ser	Leu
501			595	•			•	600					605
502													
503	His	Gln	Lys	Ser	Cys	Val	Gln	Asn	Cvs	Pro	Pro	Glv	Phe
504			•		610				- 4 -	615		1	
505													
506	Ala	Pro	Gln	Val	Leu	Asp	Thr	Asn	Tvr	Ser	Thr	Glu	Asn
507		620					625		-1-			630	
508													
509	Asp	Val	Glu	Thr	Ile	Arg	Ala	Ser	Val	Cvs	Ala	Pro	Cvs
510	_			635		-			640	•			- 4 -
511				•									
512	His	Ala	Ser	Cys	Ala	Thr	Cys	Gln	Gly	Pro	Ala	Leu	Thr
513	645			•		650	•		•		655		
514													
515	Asp	Cys	Leu	Ser	Cys	Pro	Ser	His	Ala	Ser	Leu	Asp	Pro
516	_	_	660		-			665				•	670
517													
518	Val	Glu	Gln	Thr	Cys	Ser	Arg	Gln	Ser	Gln	Ser	Ser	Arg
519					675					680			• •
520													
521	Glu	Ser	Pro	Pro	Gln	Gln	Gln	Pro	Pro	Arq	Leu	Pro	Pro
522		685					690			•		695	-
523													
524	Glu	Val	Glu	Ala	Gly	Gln	Arg	Leu	Arg	Ala	Gly	Leu	Leu
525				700	-		_		705				
526													
527	Pro	Ser	His	Leu	Pro	Glu	Val	Val	Ala	Gly	Leu	Ser	Cys
528	710					715				•	720		-
529													
530	Ala	Phe	Ile	Val	Leu	Val	Phe	Val	Thr	Val	Phe	Leu	Val

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### Raw Sequence Listing

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531			725					730					735
532													
533	Leu	Gln	Leu	Arg	Ser	Gly	Phe	Ser	Phe	Arg	Gly	Val	Lys
534					740	_				745	_		_
535													
536	Val	Tyr	Thr	Met	Asp	Arg	Gly	Leu	Ile	Ser	Tyr	Lys	Gly
537		750					755					760	
538													
539	Leu	Pro	Pro	Glu	Ala	Trp	Gln	Glu	Glu	Cys	Pro	Ser	Asp
540				765					770				_
541													
542	Ser	Glu	Glu	Asp	Glu	Gly	Arg	Gly	Glu	Arg	Thr	Ala	Phe
543	775					780		-			785		
544													
545													
546	Ile	Lys	Asp	Gln	Ser	Ala	Leu						
547			790										

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#### SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/07/621,092

DATE: 01/24/91 TIME: 08:58:37

#### LINE ERROR

#### ORIGINAL TEXT

Wrong application Serial Number

Wrong Filing Date 38

Wrong Classification 40

Extra Level-0 Records 80

355 Extra Level-0 Records

- (A) APPLICATION NUMBER: 07/621092 (B) FILING DATE: 26-NOV-1990 (C) CLASSIFICATION: 424 al, Nucl. Acids. Res., 18:664 (1990) Nucl. Acids. Res., 18:664 (1990)

PAGE: 1

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/07/621,092

MANDATORY IDENTIFIER THAT WAS NOT FOUND

DATE: 01/24/91 TIME: 08:58:37

PAGE: 1

## SEQUENCE CORRECTION REPORT PATENT APPLICATION US/07/621,092

DATE: 01/24/91 TIME: 08:58:37

#### LINE ORIGINAL TEXT

#### CORRECTED TEXT

48	(viii) ATTORNEY/AGENT INFORMATION	(viii) ATTORNEY/AGENT INFORMATION:
59	(2) INFORMATION FOR SEQ ID NO:1	(2) INFORMATION FOR SEQ ID NO:1:
82	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:1	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
336	(3) INFORMATION FOR SEQ ID NO:2	(3) INFORMATION FOR SEQ ID NO:2:
357	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:2	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:2: